Coolflow DTX

Density ρ(α,T) kg/m³

Temp ˚C	22% (-10°C)	28% (-15°C)	33% (-20°C)	38% (-25°C)	42% (-30°C)	46% (-35°C)	50% (-40°C)	52% (-45°C)
80	1003.00	1011.25	1017.80	1024.20	1029.75	1034.30	1039.70	1041.55
75	1006.00	1014.40	1020.80	1028.20	1032.75	1038.30	1042.85	1045.55
70	1009.15	1017.40	1024.80	1031.35	1036.75	1041.45	1046.00	1048.70
65	1012.15	1020.55	1027.95	1034.35	1039.90	1044.60	1050.00	1051.85
60	1015.15	1023.55	1030.95	1037.50	1043.05	1048.45	1053.15	1055.85
55	1018.15	1026.55	1033.95	1040.50	1046.05	1051.60	1056.30	1059.00
50	1020.30	1029.55	1037.10	1043.65	1049.20	1054.75	1059.30	1062.15
45	1023.30	1031.85	1039.25	1046.65	1052.20	1057.75	1062.45	1065.15
40	1025.45	1034.85	1042.25	1049.65	1055.35	1060.90	1065.60	1068.30
35	1027.60	1036.85	1044.40	1051.80	1057.50	1063.05	1068.60	1071.45
30	1029.60	1039.00	1046.55	1054.80	1060.50	1066.05	1071.75	1074.45
25	1031.75	1041.15	1049.55	1056.95	1062.65	1068.35	1073.90	1076.60
20	1033.75	1043.15	1051.55	1059.10	1065.65	1071.35	1076.90	1079.75
15	1034.90	1045.30	1052.85	1061.25	1067.80	1073.50	1079.90	1082.75
10	1036.05	1046.45	1054.85	1063.25	1069.95	1075.50	1082.05	1084.90
5	1037.20	1048.45	1056.85	1065.40	1071.95	1078.50	1084.20	1087.05
0	1038.20	1049.45	1058.00	1066.55	1073.95	1080.65	1086.35	1090.05
-5	1039.35	1050.60	1059.15	1068.55	1075.25	1081.80	1088.35	1092.05
-10	1040.50	1051.60	1060.30	1069.70	1077.25	1083.80	1090.50	1094.20
-15		1052.60	1061.30	1070.70	1078.25	1085.80	1092.50	1096.20
-20			1062.30	1071.85	1079.40	1086.95	1094.50	1097.35
-25				1073.00	1080.70	1087.95	1095.50	1099.35
-30					1082.70	1089.25	1096.65	1100.35
-35						1091.25	1097.95	1101.35
-40							1099.95	1103.65
-45								1105.23

Kinematic Viscosity v(α,T) mm²/sec

Temp ˚C	22% (-10°C)	28% (-15°C)	33% (-20°C)	38% (-25°C)	42% (-30°C)	46% (-35°C)	50% (-40°C)	52% (-45°C)
80	0.5880	0.6795	0.7480	0.8350	0.9105	0.9975	1.0830	1.1315
75	0.6295	0.7225	0.8125	0.9010	0.9880	1.0765	1.1820	1.2305
70	0.6795	0.7840	0.8770	0.9855	1.0755	1.1755	1.2925	1.3510
65	0.7310	0.8470	0.9500	1.0715	1.1730	1.2945	1.4160	1.4845
60	0.7910	0.9185	1.0430	1.1690	1.2920	1.4250	1.5680	1.6495
55	0.8595	1.0100	1.1375	1.2935	1.4310	1.5785	1.7460	1.8375
50	0.9480	1.1115	1.2620	1.4325	1.5930	1.7650	1.9655	2.0630
45	1.0480	1.2345	1.4080	1.6045	1.7895	1.9890	2.2170	2.3445
40	1.1695	1.3790	1.5785	1.8110	2.0235	2.2690	2.5375	2.6810
35	1.3140	1.5580	1.7920	2.0635	2.3150	2.6010	2.9215	3.1025
30	1.4900	1.7715	2.0445	2.3665	2.6685	3.0165	3.4035	3.6120
25	1.7090	2.0380	2.3615	2.7470	3.1125	3.5215	3.9965	4.2555
20	1.9725	2.3635	2.7490	3.2210	3.6560	4.1645	4.7450	5.0660
15	2.2950	2.7695	3.2400	3.8060	4.3435	4.9690	5.6980	6.0970
10	2.7150	3.2790	3.8620	4.5665	5.2340	6.0170	6.9295	7.4380
5	3.2400	3.8730	4.6640	5.5490	6.4000	7.4040	8.5765	9.2280
0	3.9205	4.8075	5.7255	6.8690	7.9715	9.2835	10.8290	11.7000
-5	4.8255	5.9665	7.1690	8.6655	10.1425	11.9075	14.0115	15.2065
-10	5.8525	7.5565	9.1580	11.2025	13.2255	15.7000	18.6890	20.3925
-15		9.6195	12.0105	14.8755	17.7790	21.3755	25.8020	28.3730
-20			15.7510	20.4180	24.7665	30.2525	37.1805	41.2690
-25				27.8675	35.6485	44.8930	56.3640	63.2890
-30					50.6970	70.0365	91.1390	103.4215
-35						103.7000	161.2800	183.9655
-40							247.8000	395.4165
-45								627.3870

Specific Heat (cp) kJ/kg•K

Temp ˚C	22% (-10°C)	28% (-15°C)	33% (-20°C)	38% (-25°C)	42% (-30°C)	46% (-35°C)	50% (-40°C)	52% (-45°C)
80	3.9765	3.8925	3.8170	3.7500	3.6830	3.6245	3.5645	3.5345
75	3.9665	3.8825	3.8070	3.7300	3.6715	3.6045	3.5460	3.5160
70	3.9565	3.8725	3.7970	3.7200	3.6530	3.5945	3.5260	3.4960
65	3.9480	3.8625	3.7870	3.7100	3.6415	3.5745	3.5060	3.4760
60	3.9465	3.8525	3.7755	3.6900	3.6230	3.5545	3.4945	3.4560
55	3.9365	3.8425	3.7655	3.6800	3.6115	3.5445	3.4745	3.4445
50	3.9265	3.8325	3.7555	3.6700	3.5930	3.5245	3.4560	3.4245
45	3.9265	3.8310	3.7455	3.6500	3.5830	3.5130	3.4445	3.4045
40	3.9165	3.8210	3.7355	3.6400	3.5715	3.4945	3.4245	3.3860
35	3.9150	3.8110	3.7255	3.6300	3.5530	3.4830	3.4045	3.3745
30	3.9065	3.8010	3.7155	3.6200	3.5415	3.4645	3.3945	3.3545
25	3.9050	3.8010	3.7055	3.6085	3.5315	3.4530	3.3745	3.3345
20	3.8950	3.7910	3.6955	3.5985	3.5115	3.4330	3.3545	3.3145
15	3.8950	3.7810	3.6855	3.5885	3.5015	3.4230	3.3430	3.3030
10	3.8850	3.7795	3.6755	3.5785	3.4915	3.4030	3.3245	3.2845
5	3.8850	3.7710	3.6740	3.5670	3.4800	3.3930	3.3045	3.2645
0	3.8835	3.7695	3.6640	3.5570	3.4700	3.3815	3.2930	3.2530
-5	3.8835	3.7595	3.6540	3.5470	3.4500	3.3615	3.2730	3.2330
-10	3.8741	3.7580	3.6525	3.5370	3.4400	3.3515	3.2615	3.2215
-15		3.7565	3.6425	3.5270	3.4300	3.3400	3.2430	3.2015
-20			3.6368	3.5155	3.4185	3.3215	3.2315	3.1815
-25				3.5055	3.4085	3.3100	3.2115	3.1700
-30					3.3982	3.3000	3.2000	3.1500
-35						3.2885	3.1897	3.1385
-40							3.1700	3.1185
-45								3.1070

Thermal Conductivity (TC) W/m•K

Temp ˚C	22% (-10°C)	28% (-15°C)	33% (-20°C)	38% (-25°C)	42% (-30°C)	46% (-35°C)	50% (-40°C)	52% (-45°C)
80	0.5437	0.5082	0.4798	0.4523	0.4310	0.4124	0.3940	0.3855
75	0.5407	0.5062	0.4778	0.4513	0.4317	0.4133	0.3957	0.3874
70	0.5368	0.5032	0.4766	0.4512	0.4317	0.4140	0.3974	0.3892
65	0.5338	0.5012	0.4748	0.4502	0.4324	0.4148	0.3992	0.3909
60	0.5300	0.4984	0.4736	0.4500	0.4324	0.4158	0.4001	0.3928
55	0.5270	0.4962	0.4716	0.4490	0.4323	0.4167	0.4019	0.3946
50	0.5231	0.4934	0.4706	0.4489	0.4323	0.4175	0.4029	0.3966
45	0.5191	0.4914	0.4686	0.4479	0.4323	0.4185	0.4048	0.3985
40	0.5161	0.4884	0.4676	0.4479	0.4331	0.4194	0.4058	0.3995
35	0.5131	0.4864	0.4656	0.4469	0.4331	0.4195	0.4078	0.4015
30	0.5091	0.4844	0.4646	0.4467	0.4331	0.4205	0.4088	0.4025
25	0.5061	0.4814	0.4635	0.4459	0.4331	0.4214	0.4098	0.4045
20	0.5030	0.4794	0.4616	0.4457	0.4331	0.4215	0.4108	0.4055
15	0.4998	0.4772	0.4605	0.4447	0.4331	0.4224	0.4118	0.4075
10	0.4967	0.4751	0.4593	0.4439	0.4331	0.4225	0.4129	0.4085
5	0.4935	0.4731	0.4583	0.4437	0.4331	0.4235	0.4139	0.4095
0	0.4912	0.4718	0.4563	0.4436	0.4331	0.4235	0.4149	0.4106
-5	0.4881	0.4696	0.4552	0.4426	0.4330	0.4244	0.4159	0.4116
-10	0.4858	0.4675	0.4540	0.4424	0.4330	0.4245	0.4169	0.4126
-15		0.4662	0.4529	0.4413	0.4328	0.4245	0.4169	0.4136
-20			0.4513	0.4411	0.4328	0.4254	0.4179	0.4146
-25				0.4402	0.4327	0.4254	0.4179	0.4148
-30					0.4335	0.4255	0.4189	0.4156
-35						0.4281	0.4199	0.4166
-40							0.4234	0.4169
-45								0.4179